

# Habitat Project Proposal

**Proposal Title:** Five Mile Mountain Habitat Restoration Phase III

**Proposal Number:** 1169

**DWR Region:** Southern Region

**Lead Agency:** BLM

**County:** Kane

**Project Manager:** Holly Beck

**PM Phone:** 4358656113

**Regional Priority:** Within Focus Area

**Project Type:** Terrestrial Habitat

**Proposed Start Date:** 05/01/2008

**Project Location:** GSENM - Approximately 20 miles east of Kanab on Hwy 89.

**Project Description:** Treat RCA 3 and Five Mile Mountain pastures with an aerial seeding followed by bullhog to increase understory species richness and curtail PJ invasion. Approximately 500 acres.

**Description of Problem/Need:** Extensive areas of sagebrush die-offs and lack of understory plant diversity in the sagebrush communities in this complex has created a large areathat is at risk to weed invasion, soil erosion, and in some cases wildfire. Range seedings created more than 40 yrs ago have also experienced die-offs due to drought and low initial species diversity. Juniper woodland has increased in sagebrush grassland portions of the project area resulting in reduced understory diversity and cover. Many of the plant communities in this areahave crossed a threshold that allowself renewal and now require mechanical intervention.

**Objectives:** The primary objective is to remove juniper in areas where they are encraoching on sagebrush grassland habitat and increase the diversity of understory grasses and forbs through mechanical mulching of trees and aerial seeding.

**Relevance to Strategic Plans:** The project is consistent with the Monument Managemnet Plan directives to manage for productive wildlife habitat.

Adresses the threat of invasive weeds identified in the WAP. Targets key habitats and 14 wildlife species identified as Tier I, II, and III in the WAP. This project will "restore degraded habitat" and conduct "habitat monitoring and research", two general conservation actions identified in the WAP.

**Potential Risks:** Potential for weed invasion and soil erosion if seed does not establish.

**Proposed Methods:** The RCA 3 and Five Mile pastures will be aerially seeded with a mixture of native forbs and grasses. Following seeding a track style bullhog will be used to mulch juniper trees and work seeded species into the soil. A seedbox will be mounted to the bullhog to distribute cliffrose along the tracks and into the soil. The bullhog and aerial seeding will be used on approximately 500 acres. Funds requested are for seed, aerial contract, and bullhog contract.

**Shapefile Name:** S:\DWR\HPD-2009\GIS Shape Files\5MileMtn\_1169.sh

**Seed Source:**

**UPCD Reg Team Coord Date:** 01/16/2008

**Proposed NEPA Action:**

**Proposed Arch Action:**

☒ **Vegetation Monitoring** ☐ **Wildlife Monitoring**

**Monitoring Details:** Baseline studies have been placed throughout the study area. UDWR and GSENM have collected data from these baseline plots using standard methodology and these plots will be read annually following project initiation. The plots will focus on vegetation and soil parameters and will be used to determine if the project meets established success criteria. Data collected from the plots will be used to determine changes in management or additional treatment activities. A detailed monitoring plan is included in the Environmental Assessment for this project.

**Cons. Outreach Details:**

## SPECIES BENEFITING

California Condor	Northern Goshawk	Big Free-tailed Bat	Fringed Myotis
Spotted Bat	Greater Sage-grouse	Black-throated Gray Warbler	Brewer's Sparrow
Gray Vireo	Peregrine Falcon	Sage Sparrow	Sage Thrasher

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Mule Deer

Yuma Myotis

Pronghorn

Elk

## LAND OWNERSHIP

Owner	Acres
BLM	500
<b>Total</b>	<b>500</b>

## PROPOSED FUNDING

Source	Amount Requested	Date Approved	Amount Approved
BLM (Watershed)	\$127,000.00		\$0.00
DNR Watershed (FY09)	\$127,000.00		\$0.00
Habitat Acct 174	\$30,000.00		\$0.00
<b>Totals</b>	<b>\$284,000.00</b>		<b>\$0.00</b>

## PROPOSED BUDGET

Item	Description	DWR Account	In Kind/ Partner Contrib.
Contractual Services	Aerial seed 500 acres @ \$8/acre	\$4,000.00	\$0.00
Seed (GBRC)	seed for 500 acres @ \$90/acre	\$45,000.00	\$0.00
Contractual Services	Bullhog contract for 500 acres @ \$400/acre	\$200,000.00	\$0.00
Materials and Supplies	Weather Station with soil moisture probes	\$5,000.00	\$0.00
	<b>Totals</b>	<b>\$254,000.00</b>	<b>\$0.00</b>

## PROPOSED FUNDING ALLOCATION

Funding Type	Funding Percent
Big Game	100
<b>Total</b>	<b>100.00%</b>

## Project Map:

